ThinkPad X250 Platform Specifications

Processor

5th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Speed	Processor Graphics
i3-5010U	2	4	2.1 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 5500
i5-5200U			2.2 GHz	2.7 GHz	3MB		
i5-5300U			2.3 GHz	2.9 GHz	3MB		
i7-5600U			2.6 GHz	3.2 GHz	4MB		

Graphics

Intel HD Graphics 5500 in processor,
supports external analog monitor via VGA and digital monitor via Mini DisplayPort;
supports three independent displays;
Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

Chipset

Intel SoC (System on Chip) platform

Memory

16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket

Display

Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio
Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS
Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits

Storage

Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
Some: SSHD with 8GB NAND flash memory

M.2 SSD *(opt)*

M.2 Solid State Drive (SSD), via M.2 card slot

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I218-V (Clarkville)
vPro model: Intel Ethernet Connection I218-LM (Clarkville)

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WLAN[4]

One of the following, configurable by model:

- 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card
- 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

WWAN *(optional)*

One of the following, configurable by model:

- Wireless WAN upgradable
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

SIM card *(opt)*

AT&T® or Verizon® LTE (4G), contract required with service provider

Dimensions[3]

12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm
12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm

Weight[2]

Models	*No + 3-cell*	*3-cell + 3-cell*	*No + 6-cell*	*3-cell + 6-cell*
Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg
Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg

Case material

Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector

Camera *(optional)*

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

ThinkEngine

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Optional: Fingerprint reader on the keyboard bezel, swipe sensor

Internal battery

Optional: Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery

Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10]

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr

AC adapter

45W AC adapter

Preload

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo Companion
- ThinkVantage System Update
- PC Device Stage
- Norton Studio
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Limited warranty[12]

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, IWS (International Warranty Service[17])

Mil-Spec test

MIL-STD-810G military certification.

Environment

EPEAT™ Gold (US) or EPEAT Silver (WE);
ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant